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- Mindermengenzuschlag
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Product Information



Salvianolic Acid A

Item No. 17800

CAS Registry No.: 96574-01-5

Formal Name: α R-[[[(2E)-3-[2-[(1E)-2-(3,4-dihydroxyphenyl)ethenyl]-3,4-dihydroxyphenyl]-1-oxo-2-propen-1-yl]oxy]-3,4-dihydroxy-benzenepropanoic acid

Synonym: Dan Phenolic Acid A

MF: $C_{26}H_{22}O_{10}$

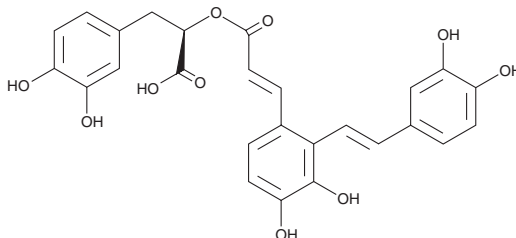
FW: 494.5

Purity: $\geq 95\%$

Stability: ≥ 2 years at -20°C

Supplied as: A crystalline solid

UV/Vis.: λ_{max} : 289 nm



Laboratory Procedures

For long term storage, we suggest that salvianolic acid A be stored as supplied at -20°C . It should be stable for at least two years.

Salvianolic acid A is supplied as a crystalline solid. A stock solution may be made by dissolving the salvianolic acid A in the solvent of choice. Salvianolic acid A is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of salvianolic acid A in ethanol is approximately 10 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of salvianolic acid A can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of salvianolic acid A in PBS, pH 7.2, is approximately 3 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Salvianolic acid A is an antioxidant and free radical scavenging compound extracted from *S. miltiorrhiza* that has been investigated for its cardioprotective and chemopreventative properties.^{1,2} It has been reported to reduce leukocyte-endothelial adherence, as well as inhibit inflammation and matrix metalloproteinases, suppress apoptosis, and reduce lipid peroxidation in damaged cardiac tissue.^{1,3}

References

1. Ho, J.H.C. and Hong, C.-Y. Salvianolic acids: Small compounds with multiple mechanisms for cardiovascular protection. *J. Biomed. Sci.* **18**, (2011).
2. Liu, G.-T., Zhang, T.-M., Wang, B., *et al.* Protective action of seven natural phenolic compounds against peroxidative damage to biomembranes. *Biochem. Pharmacol.* **43**, 147-152 (1992).
3. Zhao, Y., Guo, Y., and Gu, X. Salvianolic acid B, a potential chemopreventive agent, for head and neck squamous cell cancer. *J. Oncol.* **2011**, (2011).

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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